



Central Water Commission
Upper Ganga Basin Organisation, Lucknow
Daily Flood Situation Report Cum Advisories
Date: 11 July, 2020

FSR No.19

Dated 11-07-2020

1. Weather forecast by IMD

I. SYNOPTIC SITUATION:

- Yesterday's Low Pressure Area over northeast Arabian Sea & adjoining south Pakistan now lies over south Pakistan & neighbourhood. The associated cyclonic circulation now extends upto 3.1 km above mean sea level.
- The monsoon trough at mean sea level now runs close to the foothill of the Himalayas.
- A north-south trough from East Uttar Pradesh to south Odisha now runs from southeast Uttar Pradesh to south Chhattisgarh at 5.8 km above mean sea level.
- The Western Disturbance as a trough in mid-tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along Longitude 68°E to the north of Latitude 33°N.

II. a) DETERMINISTIC FORECAST (QPF):

S. No.	BASIN NAME	SUBBASIN CODE/NAME	QPF (mm)		
			Day-1	Day-2	Day-3
1	Alaknanda	Alaknanda	11-25	0.1-10	0.1-10
2	Bhagirathi	Bhagirathi	11-25	0.1-10	0.1-10
3	Ganga	Chhatnag to Mirzapur	11-25	11-25	11-25
		Narora to Phaphamau	0.1-10	0.1-10	11-25
		Phaphamau to Ballia	26-50	26-50	26-50
		Gomti	11-25	26-50	11-25
		Sai	26-50	26-50	11-25
		Upper Ganga	11-25	0.1-10	0.1-10
4	Ghaghra	Lower Ghaghra	11-25	11-25	11-25
		Middle Ghaghra	11-25	11-25	0.1-10
		Upper Ghaghra	11-25	11-25	0.1-10
5	Ramganga	Ramganga	0.1-10	11-25	11-25
6	Rapti	Rapti	11-25	11-25	11-25
7.	Sharda	Sharda	11-25	11-25	11-25

II (b) DETERMINISTIC FORECAST (DISTRIBUTION)

	BASIN NAME	SUBBASIN CODE/NAME	INTENSITY (I) & SPATIAL DISTRIBUTION (D)					
			Day-1		Day-2		Day-3	
			I	D	I	D	I	D
1	Alaknanda	Alaknanda	M	FWS	L	SCT	L	SCT
2	Bhagirathi	Bhagirathi	M	FWS	L	SCT	L	SCT
3	Ganga	Chhatnag to Mirzapur	M	FWS	M	FWS	L	FWS
		Narora to Phaphamau	L	SCT	M	SCT	M	SCT
		Phaphamau to Ballia	M	FWS	M	FWS	M	FWS
		Gomti	M	FWS	M	FWS	M	SCT
		Sai	M	FWS	M	FWS	M	SCT
		Upper Ganga	L	SCT	L	SCT	L	SCT
4	Ghaghra	Lower Ghaghra	M	FWS	L	FWS	M	FWS
		Middle Ghaghra	M	FWS	M	FWS	L	FWS
		Upper Ghaghra	M	FWS	L	FWS	L	FWS
5	Ramganga	Ramganga	L	FWS	L	FWS	L	FWS
6	Rapti	Rapti	M	FWS	M	FWS	M	FWS
7.	Sharda	Sharda	M	FWS	M	FWS	M	FWS

QPF in Ranges (mm)	UNLISTED	0	0.1-10	11-25	26-50	51-100	>100
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III. HEAVY RAINFALL WARNING:

NAME OF BASIN	NAME OF SUB-BASIN	Day-1		Day-2		Day-3	
		I	D	I	D	I	D
Alaknanda	Alaknanda						
Bhagirathi	Bhagirathi						
Ganga	Chhatnag to Mirzapur					H	ISOL
	Narora to Phaphamau	H	ISOL				
	Phaphamau to Ballia	H	ISOL	H	ISOL	H	ISOL
	Gomti	H	ISOL	H	ISOL	H	ISOL
	Sai	H	ISOL	H	ISOL	H	ISOL
	Upper Ganga						
Ghaghra	Lower Ghaghra	H	ISOL	H	ISOL		
	Middle Ghaghra	H	ISOL	H	ISOL		
	Upper Ghaghra						
Ramganga	Ramganga						
Rapti	Rapti	H	ISOL	H	ISOL		
Sharda	Sharda	H	ISOL	H	ISOL		

Spatial Distribution of Rainfall		
DRY	Dry	No Station reported rainfall
ISOL	One or two Places	25% or less number of stations recorded rainfall 2.5 mm
SCT	At a few Places	26%-50% number of stations recorded rainfall 2.5 mm
FWS	At many Places	51%-75% number of stations recorded rainfall 2.5 mm
WS	At most places	76%-100% number of stations recorded rainfall 2.5 mm

Intensity of Rainfall					
MDry	NIL	0 cm	VL	Very Light Rainfall	Trace
L	Light Rainfall	Upto 1 cm	M	Moderate rainfall	02-06 cm
H	Heavy rainfall	07-11 cm	VH	Very Heavy rainfall	12-20 cm
EH	Extremely Heavy rainfall	21 cm or More			
ExH	Exceptionally Heavy Rainfall	When the amount is a value near about the highest recorded rainfall at or near the station for the month or season. However, this term will be used only when the actual rainfall amount exceeds 12 cm			

IV. PROBABILISTIC FORECAST

S. No.	BASIN NAME	SUBBASIN CODE/NAME	Day-1						Day-2						Day-3					
			0 mm	0.1-10 mm	11-25 mm	26-50 mm	51-100 mm	>100 mm	0 mm	0.1-10 mm	11-25 mm	26-50 mm	51-100 mm	>100 mm	0 mm	0.1-10 mm	11-25 mm	26-50 mm	51-100 mm	>100 mm
1	Alaknanda	Alaknanda		25-50	50-75	5-25			5-25	50-75	25-50				5-25	50-75	25-50			
2	Bhagirathi	Bhagirathi		25-50	50-75	5-25			5-25	50-75	25-50				5-25	50-75	25-50			
3	Ganga	Chhatnag to Mirzapur		25-50	50-75	5-25				25-50	50-75	5-25				25-50	50-75	5-25		
		Narora to Phaphamau		50-75	25-50	5-25			5-25	50-75	25-50					25-50	50-75	25-50		
		Phaphamau to Ballia			25-50	50-75	5-25				25-50	50-75	5-25			25-50	50-75	5-25		
		Gomti		25-50	50-75	5-25					25-50	50-75	5-25			5-25	50-75	25-50		
		Sai			25-50	50-75	5-25				25-50	50-75	5-25			5-25	50-75	25-50		
		Upper Ganga		25-50	50-75	5-25			25-50	50-75	5-25				5-25	50-75	25-50			
4	Ghaghra	Lower Ghaghra		25-50	50-75	5-25				25-50	50-75	5-25				25-50	50-75	5-25		
		Middle Ghaghra		25-50	50-75	5-25				25-50	50-75	5-25			5-25	50-75	25-50			
		Upper Ghaghra		25-50	50-75	5-25				25-50	50-75	5-25			5-25	50-75	25-50			
5	Ramganga	Ramganga	5-25	50-75	25-50					25-50	50-75	5-25				25-50	50-75	5-25		
6	Rapti	Rapti		25-50	50-75	5-25				25-50	50-75	5-25				25-50	50-75	5-25		
7	Sharda	Sharda		25-50	50-75	5-25				25-50	50-75	5-25				25-50	50-75	5-25		

Probability of occurrence (%)

0-5

5-25

25-50

50-75

75-100

2. Summary of flood situation as per CWC flood forecasting network

Flood Situation on 11 JULY, 2020



2.1 Rainfall Situation

Amount of rainfall recorded at 8:30 hours IST of today (≥ 50 mm or more)

Name of Place (State)	Rainfall (in mm)
Kanpur (U.P)	66.0
Varanasi (U.P)	58.0
Elginbridge (U.P)	155.0
Turtipar (U.P)	47.4
Thoothibari (U.P)	55.2
Trimohinighat (U.P)	57.2
Maniram (U.P)	50.4
Chandradeepghat (U.P)	187.0
Valmikinagar (B.R)	58.0
Khadda (U.P)	48.0
Chauhaan Patti (U.P)	96.4
Sonauli Mohammad Pur (U.P)	66.4
Dumari Ghat (U.P)	72.2
Kusum (Nepal)	50.4

2.2 LEVEL FORECAST

LEVEL FORECAST		
S.No.	Flood Situations	No. of Forecasting Sites
A.	Extreme Flood Situation:	
	(Site (s) where the previous Highest Flood Level (HFL) is exceeded or equalized)	0
B.	Severe Flood Situation :	
	(Site(s) where water Level touching or exceeding the Danger Level but below Highest Flood Level(HFL)	0
C.	Above Normal Flood Situation:	
	(Site (s) where water level touching or exceeding the warning Level but below Danger Level)	6
Total Numbers of Sites above Warning Level (A+B+C)		6
INFLOW FORECAST		
Number of Sites for which inflow forecasts issued:		1
(Where inflow are equal or exceed the specified Threshold Limit for a particular reservoir/ barrage)		1

2.3 Above Normal (Water Level touching or exceeding the warning Level but below Danger Level)

Name of river	Flood Forecasting Sites	District	State	Danger Level(m)	Warning Level (m)	Previous Highest		Actual Level			Forecast			
						Level (m)	Date	Level (m)	Time	Trend	Level (m)	Date	Time	Trend
Rapti	Bansi	Siddharth nagar	U.P	84.9	83.9	85.88	2017	84.24	0800	R	84.80	12.07.20	0800	R
Rapti	Birdghat	Gorakhpur	U.P	74.98	73.98	77.54	1998	73.89	0800	R	74.25	12.07.20	0800	R

2.4 Severe Flood Situation (Water Level touching or exceeding the Danger Level but below Highest Flood Level (HFL))

Name of river	Flood Forecasting Sites	District	State	Danger Level(m)	Warning Level (m)	Previous Highest		Actual Level			Forecast			
						Level(m)	Date	Level(m)	Time	Trend	Level (m)	Date	Time	Trend
Ghaghra	Elgin Bridge	Barabanki	U.P.	106.07	105.07	107.616	2014	106.456	0800	R	106.65	12.07. 20	0800	R
Ghaghra	Ayodhya	Faizabad	U.P	92.73	91.73	94.01	2009	92.71	0800	R	92.77	12.07.20	0800	R
Ghaghra	Turtipar	Baliya	U.P	64.01	63.01	66.00	1998	64.09	0800	R	64.15	12.07.20	0800	R
Rapti	Balrampur	Balrampur	U.P	104.62	103.62	105.54	2015	104.31	0800	R	104.75	12.07.20	0800	R

2.5 Extreme Flood Situation (Water Level exceeded or equalized Highest Flood Level (HFL))

[illegible]

Note - No Station in this situation Dated 11.07.2020

2.6 Inflow Forecast

[illegible]

Advisory on Hydro Meteorological Situation Expected from 12-07-2020 to 13-07-2020

As per rainfall pattern given in section III, Alaknanda, Bhagirathi, Ganga, rivers are expected to receive heavy to moderate rain at area in next 48 hrs. Ghaghra Ramganga, Sharda and Rapti river basins are expected to receive high to Moderate rain at isolated places in next 48 hours. Water level at most of CWC station is expected to Rise in next 48 hours. From the given QPF, above high flood like situation is expected in most of river basins. Level forecast will be issued if the level of river at stations is likely to touch or cross warning level.

अधिशालसीअभियंता

मध्य गंगा मण्डल -1 लखनऊ

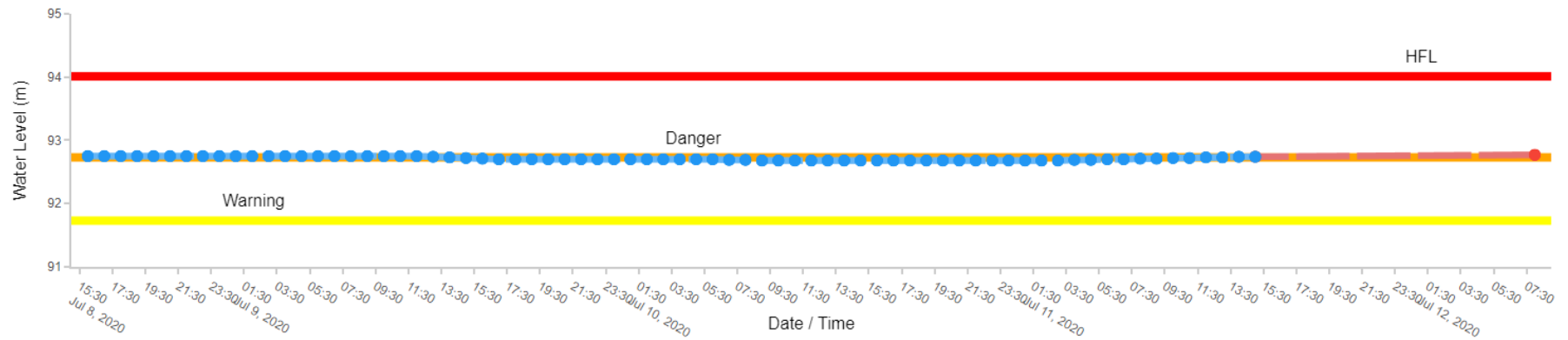


Hydrograph view of - Ayodhya



District	Basin	River	Division
FAIZABAD	Ganga	Ghagra	Middle Ganga Division-I(MGD-I), Lucknow

Forecasted Water Level Measured Water Level



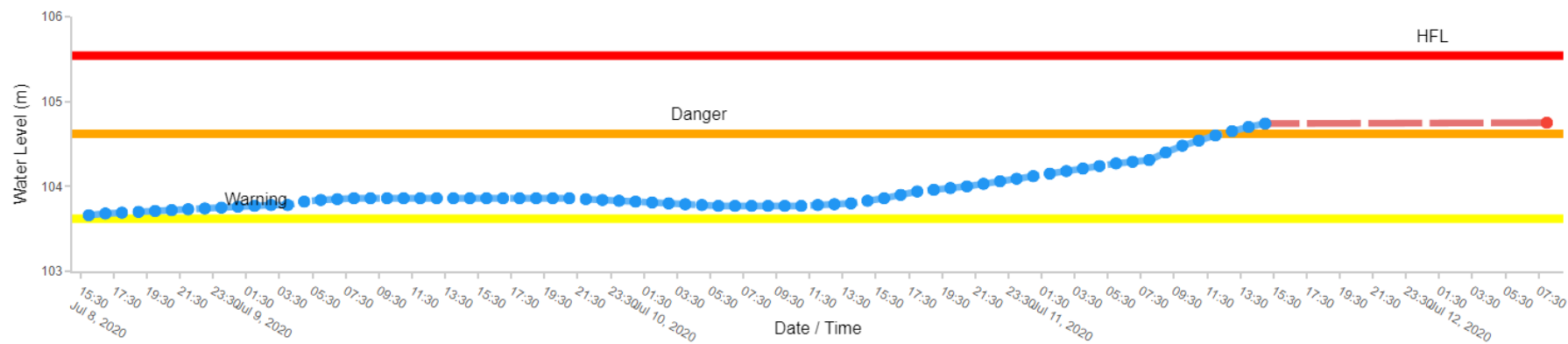


Hydrograph view of - Balrampur



District	Basin	River	Division
BALRAMPUR	Ganga	Rapti	Middle Ganga Division-I(MGD-I), Lucknow

Forecasted Water Level Measured Water Level



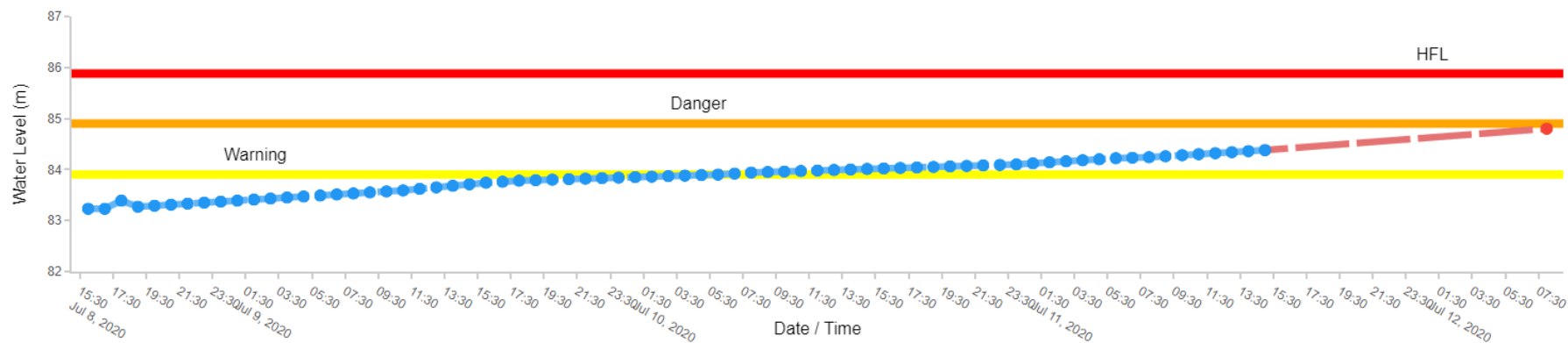


Hydrograph view of - Bansi



District	Basin	River	Division
SIDDHARTHANAGAR	Ganga	Rapti	Middle Ganga Division-I(MGD-I), Lucknow

Forecasted Water Level Measured Water Level



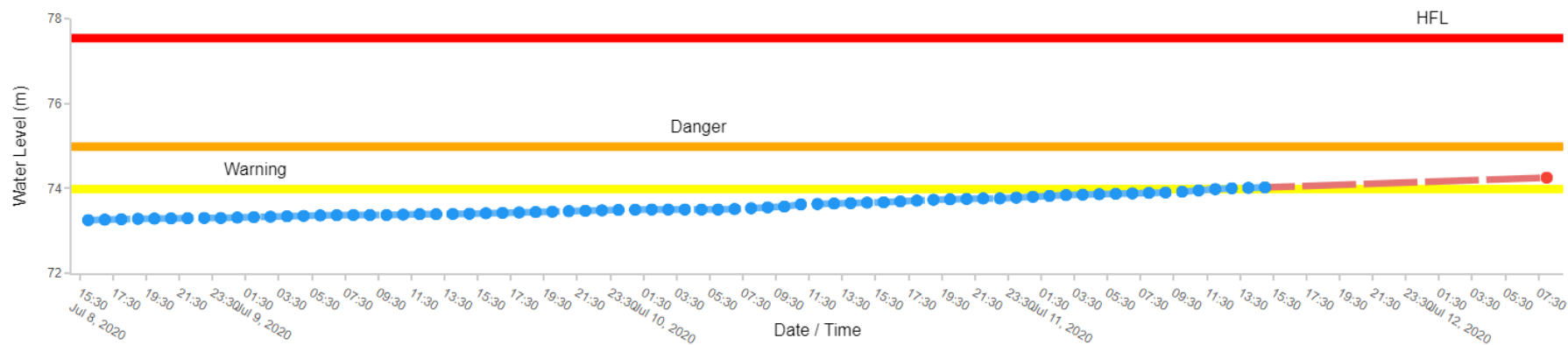


Hydrograph view of - Birdghat



District	Basin	River	Division
GORAKHPUR	Ganga	Rapti	Middle Ganga Division-I(MGD-I), Lucknow

Forecasted Water Level Measured Water Level



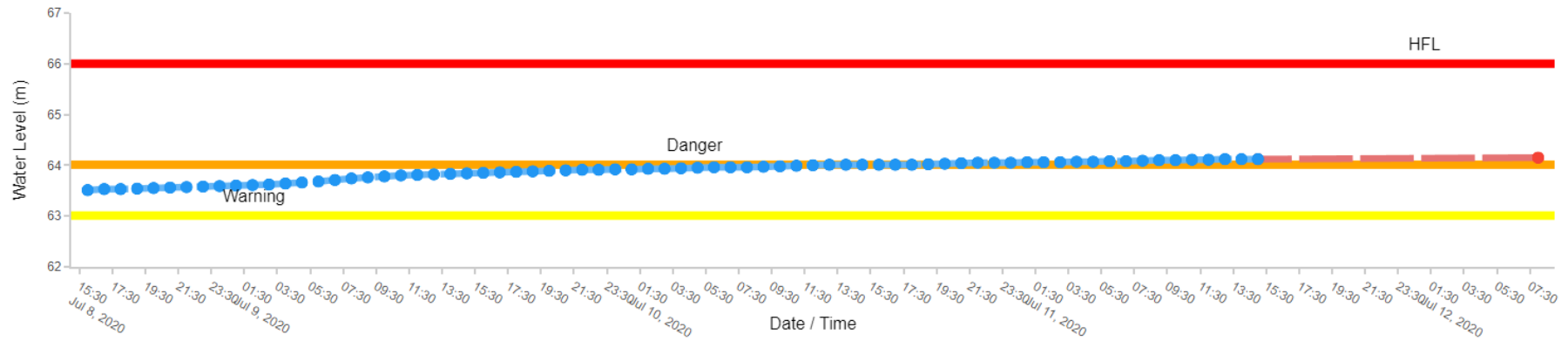


Hydrograph view of - Turtipar



District	Basin	River	Division
BALLIA	Ganga	Ghagra	Middle Ganga Division-I(MGD-I), Lucknow

Forecasted Water Level Measured Water Level



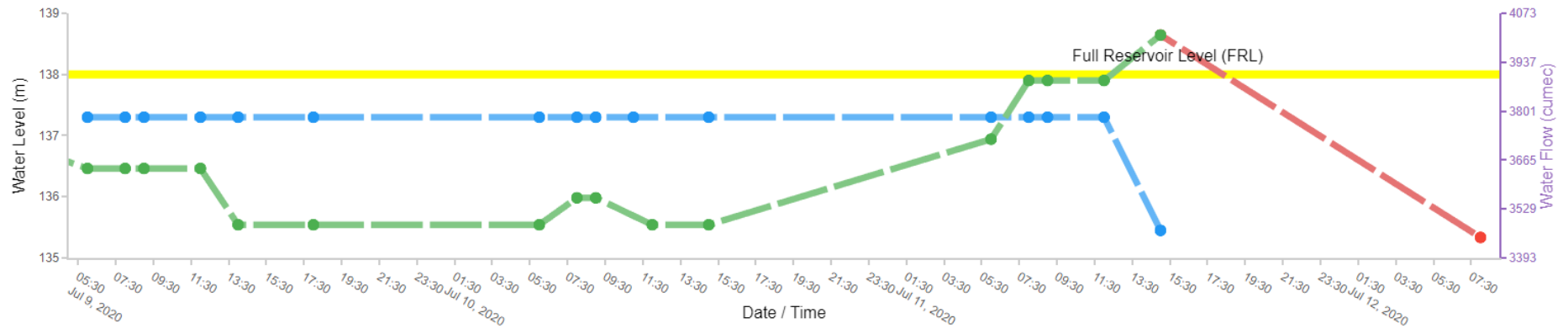


Hydrograph view of - Katarniaghat Barrage



District	Basin	River	Division
BAHRAICH	Ganga	Ghagra	Middle Ganga Division-I(MGD-I), Lucknow

Measured Water Level Forecasted Water Flow Inflow





Central Water Commission

Current Flood Forecast

Site

Hydrograph

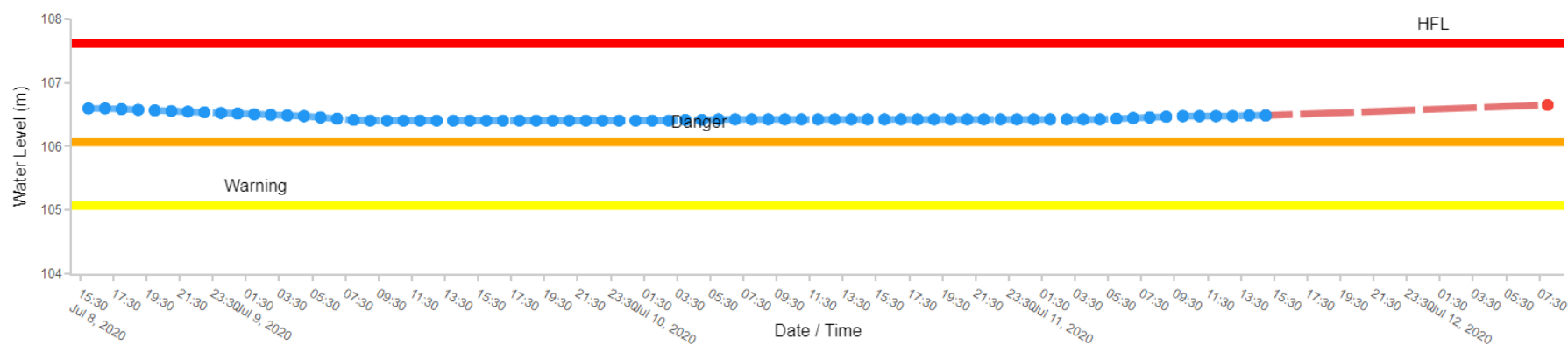


Hydrograph view of - Elginbridge



District	Basin	River	Division
BARABANKI	Ganga	Ghagra	Middle Ganga Division-I(MGD-I), Lucknow

Forecasted Water Level Measured Water Level



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